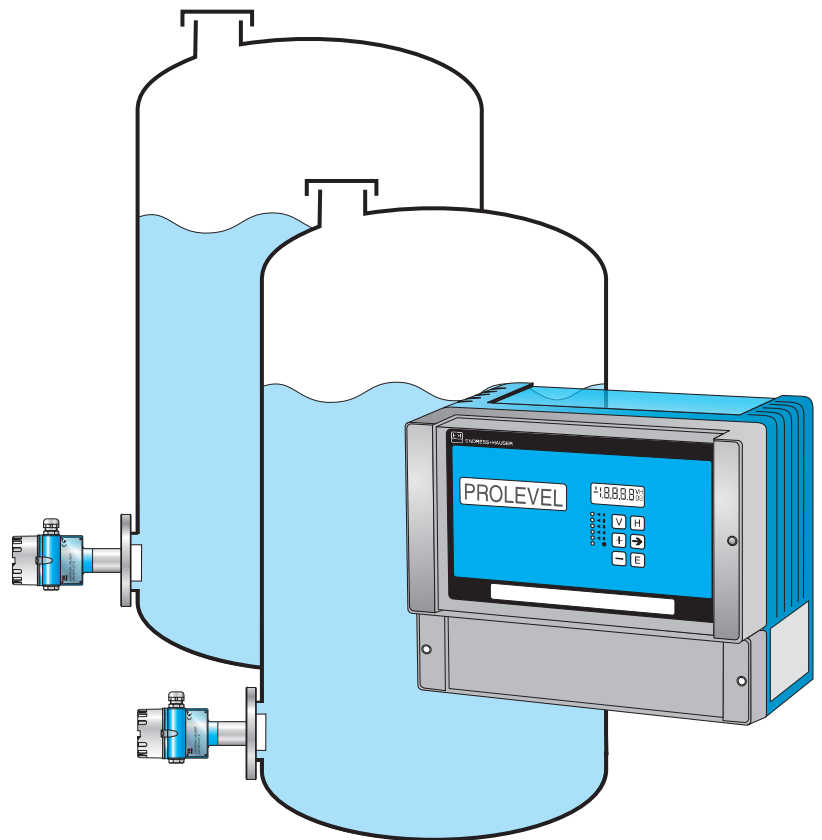
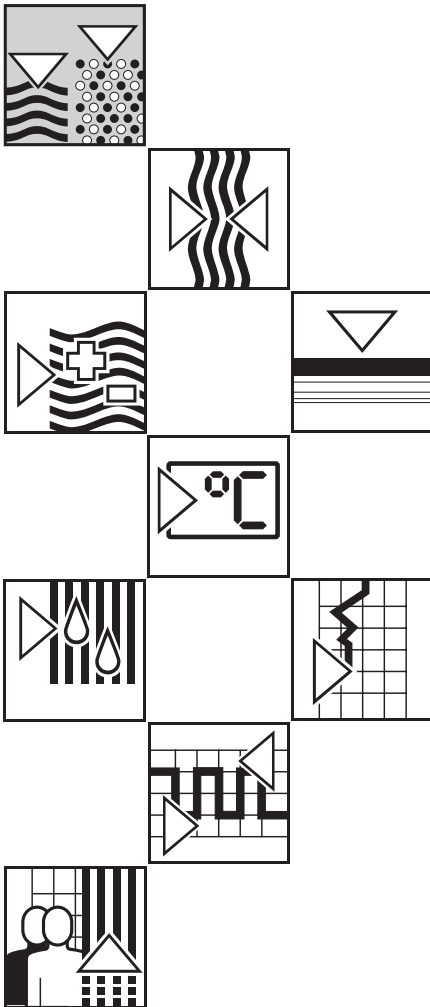


prolevel FMB 662 Hydrostatic Level Measurement

Installation and Operating Instructions

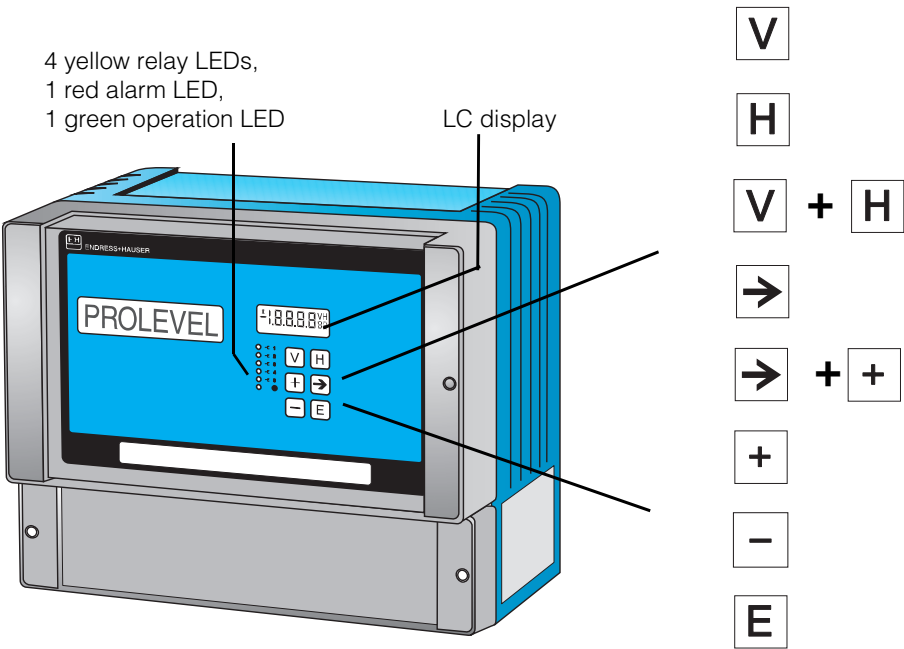


Endress + Hauser

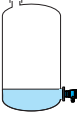
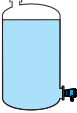
Nothing beats know-how



Short Instructions



Quick configuration for level measurement

	Function	Matrix Ch 1 Ch 2	Action
   	1 Reset transmitter Operating mode	V9H5 V8H0	- Enter 672, press »E« to register entry - <i>Omit if commissioned as in Section 4.1</i> - Enter 0 = channels 1+2, 1 = channel 1, 2 = channel 2 Press »E« to register entry
	2 »Empty« calibration*	V0H1 V4H1	Fill vessel 0...40% full (probe covered) Enter level in %, m, ft, etc. Press »E« to register entry
	3 »Full« calibration*	V0H2 V4H2	Fill vessel 60...100% full Enter level in %, m, ft, etc. Press »E« to register entry
	4 0/4 mA signal	V0H3 V4H3 V0H5 V4H5 V0H6 V4H6	- Enter 0 for 0...20 mA signal, 1 for 4...20 mA signal Press »E« to register entry - Enter level for 0/4 mA signal (if not 0) Press »E« to register entry - Enter level for 20 mA signal (if not 100) Press »E« to register entry
	5 Channel 1 Relays 1a and 1b Channel 2 Relays 2a and 2b	V1H0 V5H0 V1H1 V5H1	- Enter level for switching in calibration units Press »E« to register entry - Enter fail-safe mode: 0 = minimum, 1 = maximum Press »E« to register

* Can be performed in reverse order

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Notes on Safety

The Prolevel FMB 662 is a field transmitter for level measurement which can be used with a variety of hydrostatic sensors. It has been designed to operate safely in accordance with current technical and safety standards, and must be installed by qualified personnel according to the instructions in this manual.

Approved usage

The manufacturer accepts no responsibility for any damage arising from incorrect use, installation or operation of the equipment. Changes or modifications to the equipment not expressly approved in the operating manual or by the bodies responsible for compliance may void the user's authority to operate the equipment.

The Prolevel FMB 662 transmitter is available with certificate of conformity for use with probes and sensors operating in hazardous areas. The table below indicates the combinations available and conditions for installation. Full details can be taken from the certificates. Please note that where quoted technical data differs from that listed in Section 1.5, that in the certificate applies.

Certificates

Certificate	Instruments	Notes
PTB No. Ex-96.D.2074	Prolevel FMB 662	[EEx ia] IIC, install outside Ex-area
FM J.I.0Z2A7.AX	Prolevel FMB 662	AIS; Class I-III, Div. 1, Group A-G
CSA LR 53988-81	Prolevel FMB 662	Class I-III, Group A-G
PTB No. Ex-96.D.2071X	Deltapilot S DB50, 50L, 51, 52, 53 with FEB 17 or FEB 17P	EEx ia IIC T4...T6
German Lloyd NO. 99 350-97HH	Deltapilot S DB50, 50L, 51, 52, 53 with FEB 17 or FEB 17P	Suitable for unlimited use within the Rules

Safety conventions

In order to highlight safety-relevant or alternate operation procedures in the manual the following conventions have been used, each indicated by a corresponding icon in the margin.



Note!

Note!

- A note highlights actions or procedures which, if not performed correctly, may indirectly affect operation or may lead to an instrument response which is not planned.



Caution!

Caution!

- Caution indicates actions or procedures which, if not performed correctly, may lead to personal injury or incorrect functioning of the instrument.



Warning!

Warning!

- A warning indicates actions or procedures which, if not performed correctly, will lead to personal injury, a safety hazard or destruction of the instrument.

1 Introduction

The Prolevel FMB 662 is a field transmitter for level measurement with hydrostatic pressure sensors. It may be installed, commissioned and maintained by authorised personnel only. The operating manual must have been read and understood before the equipment is installed: instructions are to be followed exactly.

Since it is not possible to describe all applications in detail, the standard application, continuous level measurement, has been used as the basis for the functional description. Other applications as listed in Section 1.1 are described in Chapter 5. The operating instructions are structured as follows:

In this manual

- Chapter 1: Introduction;
contains general information including application, measurement principle, functional description and technical data.
- Chapter 2: Installation;
contains hardware configuration, installation instructions and connection diagrams.
- Chapter 3: Controls;
describes operation with the front panel keys, Commulog VU 260 Z, and via the Rackbus RS-485 interface.
- Chapter 4: Calibration and Operation;
tells you how to commission the Prolevel for the standard application including calibration, linearisation, analogue outputs, relays and locking the parameter matrix.
- Chapter 5: Other Operating Modes;
describes the measurement of level in a pressurised tank, differential level measurement, and density corrected level measurement.
- Chapter 6: Trouble-Shooting;
contains a description of the self-checking system with error messages, the simulation feature as well as instructions for configuration on replacement of the transmitter, sensor or electronic insert.
- Appendix: Contains a flowchart for calibration and linearisation using volume units.
- Index: lists key words to help you find information quickly.

Short instructions for the standard set-up, continuous level measurement in vented tanks, which is used in 80% of applications, are to be found in the front cover. We advise you to commission as described in Section 4.1. before using this procedure as this ensures that probes can be exchanged without the need for re-calibration.

Short instructions

In addition to this manual, the following publications provide information on configuration of the Prolevel FMB 662.

Further documentation

- BA 028F Commulog VU 260 Z handheld terminal
- BA 134F Rackbus RS-485

The installation of the sensors, electronic inserts and accessories is described in the documentation accompanying these articles - see text for references. When installing sensors in explosion hazardous areas the instructions included in the accompanying sensor certification must also be observed.

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/285300011121011222>